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Mass-energy relation, Field theory, Electromagnetic
fields, Relativity theory, Quantum mechanics.

Einstein's unified-field theory establishes that gravi-
tational fields are connected with electro-magnetic
fields. From more general field theories with six or
more dimensions, we can expect the existence of an
"intermediate field" which is neither gravitational
nor electrical. Such an intermediate field could be
identified as the non-electrical nuclear binding forces.
(Physics--Theoretical, TT, v. 10, no. 5) (over)

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Silicates, Atomic structure, X-ray diffraction analysis,
Crystal structure, Ions, Ion exchange, Sodium,
Hydrogen, Silver, Copper, Zirconium, Water.

The surface condition of glass is modified by the migra-
tion of alkaline ions. These surface alkaline ions may
be eliminated by the action of furnace gases, or by a
treatment with metakieseloh (kaolin calcined to 600°). By
(Materials--Ceramics, TT, v. 10, no. 2) (over)

62-18142

I. Weyl, W. A.

Office of Technical Services

means of so-called "base exchange" reactions they may be replaced by H or Ag ions, and "hydrogen-glasses" or "silver glasses" are thereby obtained, constituting the starting point for mirror formation. Organic chlorosilanes may substitute organic radicals for surface hydrogen ions and form hydrophobic glasses. The so-called "captive bubble" method permits the substantiation and evaluation of the adsorption by the glass surface of cations in solution, by means of contact-angle measurements of an air bubble to the glass surface in question. (Author)

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*Gastrointestinal system, Distribution, *Respiratory
system, Absorption (Biological).

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DESCRIPTORS: *Metal poisoning, *Lead, Absorption
(Biological), Toxicity, Chemical analysis, *Bone,
*Blood, Distribution, *Body, *Blood circulation.

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[1961] 7p.

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DESCRIPTORS: *Adipic acid, Synthesis, Cyclohexanes,
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DESCRIPTORS: *Steel, *Forging, *Tin, *Copper, Test
methods, Deformation, Production.

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TRUSION OF MIXTURES OF URANIUM GRAPHITE
POWDERS. (Quarterly rept. no. 2 annex, Mar-Jun 61.
[1963] 17p 1 ref

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DESCRIPTORS: *Uranium compounds, *Carbides,
*Cermets, Radiation effects, Extrusion, Sintering,
Mixtures, Graphite, Powder metallurgy, *Reactor
fuels, *Control rods.

(Nuclear Physics--Nuclear Engineering, TT, v. 11,
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- III. Herenguel, J.
- IV. Title: Sintering-Extrusion...
- V. EURAPC-126
- VI. European Atomic Energy
Community, Brussels
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Sept 66

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pp 451-453.

AEC Tr 2274

Scientific - Biology
Nov 55 CTS/DEX

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Load Acting on the Edges, by J. Mianowski, 28 pp.
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No 4, 1964, pp 513-532. PI00366867
FTD-HI-66-393

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Jan 68

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Authoritative Polish Commentary Interpreting Proletarian
Internationalism - "A Crisis of Internationalism?" by
Jerzy Wlodek, 11 pp.

POLISH, no par, Nowe Drogi, No 11, 12, Nov-Dec 1956,
Encl No 2 to Desp No 299, Warsaw, 29 Jan 1957.

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No 4027339

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REAR - Poland

Pol - Leninist & Stalinist interpretations of prole-
tarian Internationalism; Hungarian and Polish
situation

Gehlen -- a Twilight Figure, by Z. Wiatr, 5 pp, UNCLASS

POLISH, wnp, Kulisy [Sunday edition of the daily
Express Wieczorny], Warsaw, 11 January 1959.

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WEur - West Germany

Pol - Espionage

Feb 59

Wiatrowski, Stefan.
TECHNOLOGY OF THE PHOSPHORUS PRODUCTION
AND PHOSPHOROUS ACID. [1963] 10p. (figs.
omitted).

Order from SLA \$1.10

TT-63-16236

Trans. of (Chemik (Poland) 1957, v. 10, p. 38-41).

DESCRIPTORS: *Phosphorus *White phosphorus,
*Phosphorous acids, Production, Reduction, *Furnaces,
Design, Operation.

(Engineering--Chemical, TT, v. 11, no. 3)

TT-63-16236

I. Wiatrowski, S.

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How to Protect Yourself Against the Effects of
Acoustic Weapons, by W. Wiatrowski, 8 pp.
POLISH, POC, Unpublished Technical, No 1,
1968, p. 6, 060718Z
PTID-ET-06-10001

W. Wiatrowski

Set. 1968
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Connection Between the Alkaline Solubility of Wool
and its Mechanical Properties. by G. Witnaux.
FRENCH, par. L'Institut Textile de France, Bulletin.
Vol. 17, No. 107, 1963, pp 909-926
CSIRO/No. 6745

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Aug 67

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Wiberg, E. and Rumachau, W.
A NEW BORIC ACID ("HYPO-BORIC ACID") WITH
THE FORMULA $H_4B_2O_4$ AND ITS ESTER. [1963]
Sp (refs omitted)
Order from SLA \$1.10

TT-63-20301

Trans. of [Chemische Berichte] (Germany) 1937, v. 70,
p. 1393-1402.

DESCRIPTORS: "Boric acids, Esters, Methyl radicals,
Ethyl radicals, Synthesis (Chemistry), Saponification,
Esterification.

(Chemistry, TT, v. 11, no. 3)

TT-63-20301

I. Wiberg, E.
II. Rumachau, W.

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The Chemistry of Borosulfide and Its Derivatives, by
E. Wiberg, W. Stum,

GERMAN, per, Angew Chem, Vol LXVII, 1955, pp 483-493.

AFS 541-GV

Sci - Chem

Aug 60

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Wiberg, Egon and Neumeier, Ulrich.
METHOD FOR THE PRODUCTION OF HIGHLY
COMPLEXED HYDRIDES. [1963] [7p]
Order from OTS or SLA \$1.10

63-20009

Trans. of German patent 1,080,527. N° 54815 IVa/1:2,
cl. 121 1/01, Internat. cl. C 01 b, appl. 18 Jul 57,
pub. 28 Apr 60, addition to patent 1,066,553, by
Metallgesellschaft AG.

DESCRIPTORS: *Hydrides, Synthesis (Chemistry),
Group I elements, Group II elements, Group III
elements, Valence.

The invention involves a method for the production of
highly complexed hydrides according to Patent No.
1,066,553, [available in translation from LC or SLA
as 60-180(X)], characterized by the fact that a simple
hydride salt of an element of Group I or II or its
(Chemistry--Inorganic, TT, v. 10, no. 10) (over)

63-20009

- I. Wiberg, E.
- II. Neumeier, U.
- III. Patent (Germany) 1 080 527
- IV. Patent (Germany)
1 066 553 add.

1252537

Office of Technical Services

double hydride with the hydride of an element of Group III of the periodic system is utilized as a reaction component in place of $MAlH_3$, and is converted with $Al(EH_2)_3$. A salt of an element of Group I or II of the periodic system, in place of the simple hydride salt or double hydride, may be converted with aluminum boron hydride. (Auzbur)

PB- 63-20009

Wiberg, E., Graf, H., and Uson, R.
ABOUT MONOMERIC ALUMINUM HYDRIDE AlH_3

[1963] 19p
Order from K-H \$18.00

K-H 10464

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1953, v. 272, p. 221-232.

DESCRIPTORS: *Aluminum compounds, *Hydrides

TT-63-22827

- I. Wiberg, E.
- II. Graf, H.
- III. Uson, R.
- IV. K-H 10464
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Chemistry--Inorganic, TT, v. 11, no. 1)

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Mica Form of Silicon Oxyhydride [HS10 1.5]^{1/2} by
E. Wiberger, W. Simmler, 2 pp.

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1956, pp 403-404. PP 403-404 - 54-A 59 10123

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Sci - Chem

Sep 57

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Wilberg, E. and Johannsen, Th.
A VOLATILE GALLIUM HYDRIDE OF THE FOR-
MULA Ga_2H_6 AND ITS TETRAMETHYL DERIVATIVE.
[1963] Sp. (refs. omitted).
Order from SLA \$1.10

63-16799

Trans. of [die] Naturwissenschaften (Germany) 1941
[v. 29] no. 21, p. 320f.

DESCRIPTORS: *Gallium compounds, Aluminum com-
pounds, Hydrides, Methyl radicals, *Metalorganic
compounds, Synthesis (Chemistry), Chemical proper-
ties, Electrochemistry

The document also contains a brief abstract of: Metallic
precipitates at the negative pole of a galvanic battery,
R. L. Ruhland, Schweigger's Journal 15, 411-18, 1815;
and a lengthy abstract of: A non-volatile, polymeric
aluminum hydride (AlH_3), and some volatile compounds
of monomeric AlH_3 . O. Stecher and E. Wilberg.
Ber. 75: 2003-12, 1942.

63-16799

1. Title: Aluminum trimethide
2. Title: Gallium tetra-methyl hydride
- I. Wilberg, E.
- II. Johannsen, T.

(Chemistry--Organic, TT, v. 10,
no. 11)

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The Polycondensation of Organosubstituted
Chlorosilanes R_nSiCl_{3-n} by Means of the Wurtz
Synthesis: Notum Informativum Accompanying the
Doctoral Thesis of Dr. Hans Denk, by E. Wiberg.
6 pp.

GERMAN, monograph, 1 Feb 1960.

SLA 60-14476

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OTS, Vol III, No 12

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"Inorganic Benzene" $B_3H_3H_6$ and Its Methyl Homologs,
E. Wiberg, 35 pp.

GERMAN, per, Naturwiss, Vol XXIV, No 6, 1948,
pp 182-188; No 7, pp 212-218.

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Recent Trends of Development in the Chemistry of
Boron, by H. Wiberg. UNCL

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Int. Cong. Pure and Appl. Chem.) Jul 1957,
pp 183-212. 11-24

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Sci. - Chem
Mar 59

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Hydrogen Compounds, by Egon Wiberg, 1719
Grunow, par, 1911 Review of German Science,
1948, pp 125-136
CIA TT-64-20246

Egon Wiberg

Sci - Chem
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TT-64-10462

Wiberg, Egge and Michaud, Horst.
INFORMATION REGARDING AN ALUMINUM
TRIAZIDE, A METHYL ALUMINUM DIAZIDE, A
BORON TRIAZIDE, AN ETHER-SOLUBLE LITHIUM
BORAZIDE, A SILICON TETRAZIDE, A SODIUM
HEXAZIDOSTANNATE, A MAGNESIUM AZIDE, A
BERYLLIUM AZIDE, A GALLIUM TRIAZIDE (SERIES
OF ARTICLES). [1964] 27p
Order from SLA \$2.60

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Trans. of Zeitschrift für Naturforschung (West
Germany) 1954, v. 9b, p. 495-503.
Another trans. is available from LC or SLA \$2.70,
p\$4.40 as TT-60-23045, PA-Trans-93, Jun 60, 27p.

(Chemistry--Inorganic, TT, v. 11, no. 10)

I. Wiberg, E.
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Information Concerning a Beryllium Hydride, BeH_2 , by
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Full translation.

GERMAN, per, Z. Naturforsch., Vol VIb, 1951, p 171.

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Scientific - Chemistry

Aug 55

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Identification of Gallium-Aluminum-Hydrogen $Ga(AlH_4)_3$
and Gallium-Hydrogen-Etherate $GaH_3 \cdot C_2H_5O$, by Eugen
Haber, Max Schmidt, 2 pp. UNCLASSIFIED

GERMAN, per, Zeitschrift der Naturforschenden, Vol VIIb,
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Scientific - Chemistry

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Properties of Hexamethyl Borazole ("Anorganic
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Trans. of Angewandte Chemie (West Germany) 1962,
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DETERMINATION OF HYDRIDES. Chemical reactions, Syn-
thesis, Properties, Physical properties, Chemical analysis,
Chemical analysis, Hydrogen compounds, Aluminum com-
pounds, Boron compounds, Magnesium compounds,
Beryllium compounds, Gallium compounds, Lithium
compounds, Indium compounds, Thallium compounds,
Zinc compounds, Cadmium compounds, Mercury com-
pounds, Copper compounds, Silver compounds, Gold
compounds, Hydrogenation, Bibliographies.

(Chemistry--Inorganic, TT, v. 10, no. 1)

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